



STIC Search Report

EIC 3700

STIC Database Tracking Number: 148224

TO: Linda Sholl
Location: RND 8a31
Art Unit: 3700
Monday, March 21, 2005

Case Serial Number: 10/627660

From: Terry Solomon
Location: EIC 3700
RND 8b31
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Search Notes

No current or past litigation found involving US pat. 4984972.

Sources:

Lexis/Nexis
Questel-Orbit

426102 (07) 4984972 January 15, 1991

Time of Request: March 18, 2005 01:00 PM EST

Research Information:

Utility, Design and Plant Patents
patno=4984972

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

4984972

January 15, 1991

Centrifugal blood pump

REISSUE: July 28, 2003 - Reissue Application filed Ex. Gp.: 3746; Re. S.N. 10/627,660 (O.G. October 28, 2003)

APPL-NO: 426102 (07)

FILED-DATE: October 24, 1989

GRANTED-DATE: January 15, 1991

ASSIGNEE-AT-ISSUE: Minnesota Mining and Manufacturing Co., St. Paul, Minnesota, United States (US), 02

ASSIGNEE-AFTER-ISSUE: October 24, 1989 - ASSIGNMENT OF ASSIGNORS INTEREST., MINNESOTA MINING AND MANUFACTURING COMPANY, ST. PAUL, MN, A CORP. OF DE, Reel and Frame Number: 05163/0756

July 9, 1999 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS) ., TERUMO CARDIOVASCULAR SYSTEMS CORPORATION 2101 COTTONTAIL LANE SOMERSET NEW JERSEY, Reel and Frame Number: 10043/0831

LEGAL-REP: Kinney & Lange

Selected file: PLUSPAT
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Comprehensive Worldwide Patents database

**** SS 1: Results 1**
PRT SS 1 MAX 1 LEGALALL

1 / 1 PLUSPAT - ©QUESTEL-ORBIT

Patent Number :

US4984972 A 19910115 [US4984972]

Title :

(A) Centrifugal blood pump

Patent Assignee :

(A) MINNESOTA MINING & MFG (US)

Patent Assignee :

Minnesota Mining and Manufacturing Company, St. Paul MN [US]

Inventor(s) :

(A) CLAUSEN EARL W (US); HUBBARD LLOYD C (US)

Application Nbr :

US42610289 19891024 [1989US-0426102]

Priority Details :

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Intl Patent Class :

(A) F04D-007/02 F04D-025/06

EPO ECLA Class :

A61M-001/10C

F04D-005/00B

F04D-013/02B3

F04D-029/04P

F04D-029/62P

EPO ICO Class :

K61M-001/10C1C2

US Patent Class :

ORIGINAL (O) : 417420000; CROSS-REFERENCE (X) : 415900000

Document Type :

Basic

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US3354833; US3411450; US3575536; US3645650; US3647324; US3762839;

US3771910; US3838947; US3864055; US4352646; US4507048; US4589822;

US4606698; US4643641; US4688998; US4898518; DE2048286; DE1728462;

JP43-17206

Publication Stage :

(A) United States patent

Abstract :

A disposable pumping unit has a pump housing which encloses a pumping chamber therein. The pump housing includes an inlet and an outlet communicating with the pumping chamber. A stator is connected to the pump housing and has a distal end which extends into the pumping chamber. The stator defines a central axis. A bearing is supported at the distal end of the stator and is aligned with the central axis. Positioned within the pumping chamber is a rotator supported on the bearing for rotation about the central axis. At least one magnet is carried by the rotator.

1 / 1 LGST - ©EPO

Patent Number :

US4984972 A 19910115 [US4984972]

Application Number :

US42610289 19891024 [1989US-0426102]

Action Taken :

19891024 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: MINNESOTA MINING AND MANUFACTURING COMPANY, ST. PA; EFFECTIVE
DATE: 19891019

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ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: CLAUSEN, EARL W.; EFFECTIVE DATE: 19891019

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ASSIGNMENT OF ASSIGNOR'S INTEREST
OWNER: HUBBARD, LLOYD C.; EFFECTIVE DATE: 19891019

20031028 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20030728
Update Code :
2003-45

1 / 1 CRXX - @CLAIMS/RRX
Patent Number :
4,984,972 A 19910115 [US4984972]
Patent Assignee :
3M Innovative Properties Co
Actions :
19990709 REASSIGNED
ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: MINNESOTA MINING & MANUFACTURING COMPANY DATE SIGNED:
06/30/1999

Assignee: TERUMO CARDIOVASCULAR SYSTEMS CORPORATION 2101 COTTONTAIL LANE
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Reel 010043/Frame 0831

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Reissue Patent Number:

Session finished: 18 MAR 2005 Time 20:08:06
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